IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Victor E. Braman, et. al.

Title:

Sodium Carbonate Recovery From Waste Water Streams and Impounded Sodium

Carbonate Decahydrate Deposits

INFORMATION DISCLOSURE STATEMENT 37CFR 1.98

Hon. Commissioner of Patents Washington, DC 20231

Parsippany, NJ 07054

Applicant submits the references listed on attached form PTO/SB08A for consideration by the Examiner in the examination of the above-entitled application.

Referring to this prior art:

The patent to Dome (4,869,882) teaches waste recovery directly.

Copenhafer, No. 6,228,335 teaches solution mining treated with steam stripping and sequential crystallization of sodium sesquicarbonate and monohydrate.

Neuman, No. 6,251,346 teaches solution mining treated with steam stripping and deca crystallization.

Chlanda (4,584,077 granted Apr. 22, 1986) teaches water splitting which is not used in the present invention.

The following patents teach variations of steam stripping to reduce sodium bicarbonate concentration followed with sequential crystallization steps to produce sodium sesquicarbonate, sodium carbonate decahydrate and/or sodium bicarbonate. The original streams are identified as trona ore bines or mine brines, not waste streams.

Neuman

No. 5,955,043 granted Sep. 21, 1999

Zolotoochin No. 5,624,647 granted Apr. 29, 1997

Delling

No. 5,618,504 granted Apr. 8, 1997

Copenhafer Copenhafer

No. 5,283,054 granted Feb.1, 1994

Miller

No. 5,262,134 granted Nov. 16, 1994 No. 3,264,057 granted Aug. 2, 1966

The following patents teach solution mining from underground disposal a technique not used in the present invention.

Frint, No. 5,192,164 granted Mar. 9, 1993 Frint, No. 5,238,664 granted Aug. 24, 1993

Frint, No. 5,262,134

Respectfully submitted

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Bv:

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